What is claimed is:

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- 1. An improved tilt lock device for a chair having a spindle member and piston for raising or lowering the chair, comprising:
 - (a) a spindle housing mounted to said spindle member and piston where said spindle housing has a horizontal axis;
 - (b) a pivot pin carried by said spindle housing and extending laterally with respect to said horizontal axis through said spindle housing;
 - (c) a bracket member pivotally mounted to said pivot pin for rotation relative to said spindle housing;
 - (d) a locking shaft having an axis of elongation slidably carried by said bracket member and by said spindle housing, said locking shaft extending laterally with respect to said horizontal axis through said spindle housing and at least in part through said bracket member where said locking shaft is responsive to external force for axial displacement and is so adapted for carriage by said spindle housing and said bracket member to permit slidable axial displacement of said locking shaft with respect to said axis of elongation upon the application of said external force;
 - (e) a pawl plate for engagement with said piston for raising or lowering said chair having an upper surface and a lower surface where said pawl plate is fixed for rotation with said locking shaft and extends laterally to said axis of elongation;
 - (f) a barrier rib disposed in said upper surface of said pawl plate and projecting above said upper surface, said barrier rib extending laterally with respect to said axis of elongation;
 - (g) a pawl member carried by said pivot pin and mounted to permit rotation of said pawl member with respect to said pivot pin; and
 - (h) a torsion spring carried by said pivot pin having a first extension and a second extension for compressively biasing both said pawl member and said pawl plate respectively so as to oppose rotation of said pawl plate, where said first extension compressively engages said pawl member and said second

extension compressively engages said upper surface of said pawl plate thereby biasing said second extension against said barrier rib axially with respect to said axis of elongation whereby said locking shaft is precluded from axial displacement with respect to said axis of elongation without application of said external force applied to said locking shaft to overcome the bias of said second extension against said barrier rib.

- 2. The improved tilt lock device recited in Claim 1 where said bracket member comprises a base for attachment to said chair laterally symmetrical with respect to said horizontal axis, and a first rail and second rail integral with and extending from said base in a direction orthogonal to said axis of elongation, said first and second rails laterally and oppositely spaced with respect to said horizontal axis, where said first rail contains a slot extending therethrough for receiving said locking shaft to permit rotation of said bracket member with respect to said locking shaft and where said second rail has a plurality of apertures extending therethrough for receiving said locking shaft such that extension of said locking shaft into one of said plurality of apertures locks said bracket member and said spindle housing together rotationally.
- 3. The improved tilt lock device recited in Claim 2 where said spindle housing has a first opening adjacent said first rail and a second opening adjacent said second rail for receiving said locking shaft such that when said locking shaft extends through both said first and second openings said locking shaft is in fixed spatial relationship with said spindle housing.
- 4. The improved tilt lock device recited in Claim 3 further comprising a coil spring means associated with said bracket member and said spindle housing for biasing said bracket member upon rotation with respect to said spindle housing.
- 5. An improved tilt lock device for a chair of the type having a spindle member and piston for raising or lowering the chair, a spindle housing mounted to said spindle member and piston where said spindle housing has a horizontal axis, a pivot pin carried by said spindle housing and extending laterally with respect to said horizontal axis through said spindle housing, a bracket member pivotally mounted to said pivot pin for rotation relative to said spindle housing, a locking shaft having an axis of elongation slidably carried by said bracket member and by said spindle housing, said locking shaft extending laterally with respect to said horizontal

axis through said spindle housing where said locking shaft is responsive to external force for axial displacement and is so adapted for carriage by said spindle housing and said bracket member to permit slidable axial displacement of said locking shaft with respect to said axis of elongation upon the application of said external force, the improvement comprising:

- (a) a pawl plate for engagement with said piston for raising or lowering said chair having an upper surface and a lower surface where said pawl plate is fixed for rotation with said locking shaft and extends laterally to said axis of elongation;
- (b) a barrier rib disposed in said upper surface of said pawl plate and projecting above said upper surface, said barrier rib extending laterally with respect to said axis of elongation;
- (c) a pawl member carried by said pivot pin and mounted to permit rotation of said pawl member with respect to said pivot pin; and
- (d) a torsion spring carried by said pivot pin having a first extension and a second extension for compressively biasing both said pawl member and said pawl plate respectively so as to oppose rotation of said pawl plate, where said first extension compressively engages said pawl member and said second extension compressively engages said upper surface of said pawl plate thereby biasing said second extension against said barrier rib axially with respect to said axis of elongation whereby said locking shaft is precluded from axial displacement with respect to said axis of elongation without application of said external force applied to said locking shaft to overcome the bias of said second extension against said barrier rib.
- 6. The improved tilt lock device recited in Claim 5 where said bracket member comprises a base for attachment to said chair laterally symmetrical with respect to said horizontal axis, and a first rail and second rail integral with and extending from said base in a direction orthogonal to said axis of elongation, said first and second rails laterally and oppositely spaced with respect to said horizontal axis, where said first rail contains a slot extending therethrough for receiving said locking shaft to permit rotation of said bracket member with respect to said locking shaft and where said second rail has a plurality of apertures extending therethrough for receiving said

locking shaft such that extension of said locking shaft into one of said plurality of apertures locks said bracket member and said spindle housing together rotationally.

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- 7. The improved tilt lock device recited in Claim 6 where said spindle housing has a first opening adjacent said first rail and a second opening adjacent said second rail for receiving said locking shaft such that when said locking shaft extends through both said first and second openings said locking shaft is in fixed spatial relationship with said spindle housing.
- 8. The improved tilt lock device recited in Claim 7 further comprising a coil spring means associated with said bracket member and said spindle housing for biasing said bracket member upon rotation with respect to said spindle housing.